

**Rough Translation of Most of Reference DE19800376, as obtained using the free
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The invention refers to a presentation device using a laptop computer, which is conceived predominantly for the employment in the field service. During the customer advisory service of banks and insurance or in the selling for the presentation of the product which can be sold in each case presentation aids are used. By means of the Multimedia techniques today the available the explanation-needy products can be better described and their advantages substantially more convincingly be clarified. If the consulting and/or sales talk is accomplished with the customer, spatial conditions are often not suitable for an optimal presentation, i.e. modern presentation means, like overhead projector with LC-display or video projector, cannot be used. If e.g. Insurance agents or financial service provider their customers in the dwelling visit, are not it not possible to set up an adjusting wall. Such spatial changes are rejected by most customers. It is usual to note computations and diagrams on a sheet paper and to turn the sheet half to the customer, so that it can follow the supplementing written explanation. It was shown that the presentation with a computer offers a set of advantages. By means of special software e.g. most diverse variants of a life insurance can be calculated and be represented immediately graphically, i.e. easily understandably and from there convincingly. Since this presentation technology constantly develops themselves further and is accepted by the customer as very comfortable, the urgent need, also for the small presentation employment locally, exists i.e. in the dwelling of the customer or in a small office space to use this technology. Laptop computers offer due to their high arithmetic performance in principle the possibility, also program and memory-intensive of processing i.e. fastidious presentation software. Thus locally a convincing presentation would be possible also at the customer, if that could be solved above mentioned problem of the spatial restrictions. The task of the invention exists in the creation of a computer-aided presentation device, which makes a convincing presentation possible also under very much restrained spatial conditions. The task is solved with devices in accordance with the requirements 1 to 12. The advantage of the invention is in that at the same time and comfortably in each case the customer and the control person (in the following customer

and salesman called) can observe a flat screen. Thus all advantages of modern presentation technology are usable also under particularly close spatial conditions, and the goal-prominent consultation of the customer is possible e.g. by means of optically effective diagrams. According to requirement 1 a second flat screen is located on the exterior of the monitor of a laptop of computer, which indicates the same picture information as the first flat screen with normal mode of operation. This execution form required opposite a conventional laptop computer with a monitor with only one flat screen only a small additional expenditure for material and supplies and is economically producible. According to requirement 2 a monitor of a laptop computer with a einstückig trained double side screen is used, which makes a further material and weight lowering possible. According to requirement 3 a second monitor is articulated connected with the first monitor with a second flat screen at the upper edge of a opening by hinges monitor at the basic equipment of a conventional laptop computer. In the folded up condition both monitors with the flat screens are arranged parallel to the basic equipment, and a lift-up lid protects the second monitor with the second flat screen in closing situation against damage. In the operating condition both monitors are set up dachförmig, whereby the second monitor at the cover, presented connected articulated with the cover, on the table pushes away, and make for the respective viewer possible an optimal view on it turned the flat screen. According to requirement 4 the articulated with one another connected monitors are beabstandet arranged and dachförmig set up in the operating condition of the basic equipment of the laptop computer, whereby the basic equipment is connected with the first monitor for the transmission of the picture and synchronous data as well as the tax data by means of a cable. Between the two articulated connected monitors the transmission of the picture, synchronous and tax data takes place by a cable connection integrated into the articulated connection. Thus the monitors are spatially freely movable, whereby their freedom of movement is only limited by the length of the cable. By the dachförmige list of the monitors on a table under a freely selectable angle the flat screens from the respective observation side are optimally observable. In the folded up condition both monitors with the flat screens are arranged parallel to the top side and/or to the lower surface of the basic equipment of the laptop of computer. The lift-up lid protects the second monitor with the second flat screen in closing situation against damage.

According to requirement 5 a second monitor is beabstandet arranged and for the transmission of the picture, synchronous and tax data by means of a cable with the basic equipment of the laptop of computer or with the first monitor connected in the operating condition of a first monitor, which is articulated connected with the basic equipment. In the operating condition the second monitor with the second flat screen is spatially freely movable, whereby the freedom of movement is only limited by the length of the cable. The customer can put or like a picture in the hands hold the monitor before itself the table. In the closed condition both monitors lie parallel to the upper or to the lower surface of the basic equipment, whereby the back of the second monitor exhibits a cover and a protective function. According to requirement 6 a first wireless data communication device, e.g. intended on infrared basis, is, which is suitable, picture, to transfer synchronous and tax data in the basic equipment of the laptop computer. In a second monitor a second wireless data communication device is arranged apart from an internal current supply, which receives the picture, synchronous sent by the first data communication device and tax data. The transmission devices in the basic equipment and in the second monitor are able to transmit tax data bi-directional. The user can move the second monitor in the area freely. According to requirement 7 also several separate monitors with flat screens can be used, if a presentation is to be e.g. ordered to several persons. According to requirement 8 a data control device is intended, with which on the second flat screen of the second monitor a still is producible, while on the first flat screen of the first monitor a current screen sequence runs off. This still mode is used if the customer some more wants to concern itself longer with a screen representation and the salesman liked to already work on a next offer. According to requirement 9 the monitors with the flat screens are separately controllable, in order to indicate different information. This mode can be used, if e.g. the salesman sees a complex graphic overall display, by which it assumes that it is with difficulty understandable for the buyer. The salesman is this complex with this mode in the position, to divide and to the buyer successively present obscure representation into several parts, whereby the understanding and the product acceptance are thus increased. According to requirement 10 is for each flat screen an operable screen cursor control device planned, whereby with everyone the screen cursor control devices on each flat screen is producible a screen cursor, is called the

customer can by pointing to a certain screen surface, at which e.g. a number incomprehensible for it stands, whom salesmen ask for further explanations. On the other hand the salesman can refer by means of the pointer to selected data or diagrams. According to requirement 11 the flat screens are interactive screens, which are activatable by affecting, so that with a finger or a pin to the interesting place can be referred. According to requirement 12 a printer is integrated, in order to know certain offers equal expressions in the basic equipment. Further advantages of the invention result from the following description of the remark examples in connection with the attached schematic designs.

Fig. 1 shows a first execution form of the invention, how - Fig. 1a the device in the functional condition shows and - Fig. 1b the device approach closed shows - Fig. 2 shows a second execution form of the invention, how - Fig. 2a the device in the functional condition shows and - Fig. 2b the device approach closed shows - Fig. 3 shows a third execution form of the invention, how - Fig. 3a the device with interwiring and - Fig. 3b the device with infrared coupling shows - Fig. 4 shows a fourth execution form of the invention, how - Fig. 4a the device with interwiring and - Fig. 4b the device with infrared coupling shows. - Fig. 1 shows a first execution form of the invention, whereby one with a basic equipment 1 a conventional laptop computer articulated connected monitor 2 on the one keyboard 3 turned front a first flat screen 4 and on the back a second flat screen 5 (see Fig. 1b) exhibits. With the lower part of the monitor 2 is a lift-up lid 6 articulated connected. In the operating condition (see Fig. 1a) the monitor stands 2 with the reciprocally arranged flat screens (4 , 5) perpendicularly, and the lift-up lids 6 is hinged away. The laptop computer is set up in such a way that two opposite-sitting persons can see themselves in each case them turned flat screen well. An increase of the presentation achievement is possible, if both the salesman and the customer have a cursor expensive device. The salesman can with a first wireless cursor expensive device 7 , e.g. a so-called radio mouse, on both flat screens mark at the same time negotiation-relevant screen information, and the customer is on the other hand likewise in the situation, by means of a second wireless cursor expensive device 8 to designate it interesting data on both flat screens at the same time. It can inquire thus with the salesman more purposefully and

arrives faster to understand it the presented connections. - Fig. 1b shows the device in approach the closed condition, whereby the lift-up lid 6 in closing situation the monitor 2 with the flat screen 5 against damage protects. - Fig. a second execution form of the invention shows 2, whereby with the upper section of one at the basic equipment 1 opening by hinges first monitor 2 a further monitor 9 is articulated connected. The monitor 2 points a flat screen 4 for the salesman up and is connected to the picture, synchronous and tax data communication over a cable connection with the monitor 9, around the screen layout on the flat screen 10 to implement for the customer. At the lower part of the monitor 9 is a lift-up lid 6 articulated arranged. In the folded up condition, like it approach in Fig. 2b is shown, is parallel both monitors with the flat screens to the basic equipment 1 and the lift-up lid 6 arranged, that the monitor 9 with the flat screen 10 against damage protects. In the operating condition both monitors are set up dachförmig and make for the respective viewer possible an optimal view on it turned the flat screen. Whether the monitors in a pointed angle are set up, as in Fig. 2a shown, or whether an obtuse angle is selected, it depends of respective local conditions and is in each case locally optimized. In the operating condition the monitor becomes 9 by the opened lift-up lid 6 on the table supported. - The cursor movement on both flat screens becomes by a radio-controlled cursor expensive device 7 for the salesman and a radio-controlled cursor expensive device 8 for the customer makes possible. - Fig. 3a shows a third execution form of the invention, with that articulated the connected monitors 2 and 9 as well as with the lower part of the monitor 9 articulated connected lift-up lid 6 to the production of the operating condition of a basic equipment 1 removable and of this beabstandet on a table dachförmig set upable is, whereby the opened lift-up lid 6 on the table rests upon. As is the case for the second execution form the setting up angle is freely selectable. The monitor 2 is with the basic equipment 1 to the transmission of picture, synchronous and tax data only over a cable 11 connected. With this execution form the salesman sits before the basic equipment 1 and looks on the first flat screen 4 that diagonally employee monitor 2, and the buyer looks on him turned the flat screen 10 the monitor 9. In a state of rest both monitors with the flat screens are parallel to the basic equipment 1 and the lift-up lid 6 arranged, that the monitor 9 with the flat screen 10 against damage protects. A cursor expensive device is as intended in the preceding

execution form. - Fig. 3b shows an execution form of the invention, with in the operating condition the transmission of the picture, synchronous and tax data between the basic equipment 1 and the beabstandeten monitor 2 via an infrared coupling S takes place. In this case is in the back of the basic equipment 1 an infrared interface 12 arranged, which by the hard and software of the basic equipment 1 one heads for. For the execution of the transmission of the picture, synchronous and tax data is the monitor 2 with an infrared interface 13 , for the enterprise of the interface necessary a hard and a software as well as with a separate power supply equipped. To the screen layout on the flat screen 4 the monitor 2 and on the flat screen 10 the monitor 9 as well as the hard and software necessary for the cursor movement are in each case in both monitors intended. - In the closing condition both monitors with the flat screens are parallel to the basic equipment 1 and the lift-up lid 6 arranged, that the monitor 9 with the flat screen 10 against damage protects. - Fig. 4a shows a fourth execution form of the invention, with that the second monitor 9 with the flat screen 10 in the operating condition only over a cable 11 to the picture and tax data communication with the basic equipment 1 or with at the basic equipment 1 opening by hinges arranged first monitor 2 is connected. With this execution form the salesman sits before the basic equipment 1 with the monitor 2 and looks on the flat screen 4 . The buyer puts the second monitor 9 before itself on the table, or he places the monitor 9 by means of a setting up device into a suitable inclination, thereby it the flat screen 10 comfortably to see can. - In Fig. 4b becomes in place of the cable 11 between the second monitor 9 and the basic equipment 1 or the first monitor 2 to the transmission of the picture and tax data an infrared transmission circuit S uses, which is developed in accordance with the third execution form. A cursor expensive device is as intended in the preceding execution forms. - In the closing condition both monitors with the flat screens are parallel to the basic equipment 1 arranged, whereby a strengthened back of the monitor 9 like a cover is effective and the flat screen 10 against damage protects. All four execution forms can be supplemented by the coupling of further monitors with flat screens, whereby a only one further flat screen is preferably only used, since more than two persons at the same time are very rarely advised.

Claims:

1. Presentation device in form of a laptop computer also - - - a basic equipment (1), in that a keyboard (3) and substantial parts of the hardware are intended, and - - a opening by hinges monitor (2), which with the basic equipment (1) is articulated connected, whereby on the inside of the monitor (2) a first flat screen (4), those is arranged over a lead with the basic equipment (1) is connected, thus characterized that on the exterior of the monitor (2) and parallel to the first flat screen (4) a second flat screen (5) is intended, that with normal mode of operation the same picture information as the first flat screen (4) indicates.
2. Presentation device according to requirement 1, by characterized that both flat screens are designed as double side screen einstückig. –
3. Presentation device in form of a laptop computer also - - - a basic equipment (1), in that a keyboard (3) and substantial parts of the hardware are intended, and - - a opening by hinges first monitor (2), which with the basic equipment (1) is articulated connected, whereby on the inside of the first monitor (2) a first flat screen (4), those is arranged over a lead with the basic equipment (1) connected it is characterized, by the fact that at the upper edge of the first monitor (2) a second monitor (9) with a second flat screen (10) over a mechanical joint and by means of leads with the first monitor (2) is connected, how - - in the closed condition both monitors with the flat screens parallel to the top side of the basic equipment (1) and in the operating condition both monitors are arranged are dachförmig set up.
4. Presentation device in form of a laptop computer also - - - a basic equipment (1), in that a keyboard (3) and substantial parts of the hardware are intended, - - a first monitor (2), on their front a first flat screen (4) is arranged, and - - a second monitor (9) with a second flat screen (10), which with the first monitor (2) at the upper edge of the first monitor (2) articulated connected and by a lead integrated into the Gelenkverbindung attached it is characterized, by the fact that -

- the combination of the articulated with one another connected monitors (2 , 9) in the operating condition of the basic equipment (1) is beabstandet dachförmig set up, - - the combination of the articulated with one another connected monitors (2 , 9) in the operating condition by means of a solvable cable (11) with the basic equipment (1) is connected, and - - in a state of rest both monitors parallel to the upper or to the lower surface of the basic equipment (1) lie. -
- 5. Presentation device in form of a laptop computer also - - - a basic equipment (1), in that a keyboard (3) and substantial parts of the hardware are intended, and - - a opening by hinges first monitor (2), which with the basic equipment (1) is articulated connected, whereby on the inside of the first monitor (2) a first flat screen (4), those is arranged over a lead with the basic equipment (1) connected it is characterized, by the fact that - - a second monitor (9) with a flat screen (10), which in the operating condition of the basic equipment (1) is beabstandet arranged, by means of a solvable cable (11) with the basic equipment (1) or the first monitor (2) is connected, - - in the closed condition both monitors with the flat screens parallel to the upper or to the lower surface of the basic equipment (1) lie. -
- 6. Presentation device in form of a laptop computer also - - - a basic equipment (1), in that a keyboard (3) and substantial parts of the hardware are intended, and - - a opening by hinges first monitor (2), which with the basic equipment (1) is articulated connected, whereby on the inside of the first monitor (2) a first flat screen (4), those is arranged over a lead with the basic equipment (1) is connected, - - a second monitor (9) with a flat screen (10), which in the operating condition of the basic equipment (1) beabstandet arranged it is characterized, by the fact that the second - monitor (9) an internal power supply and a wireless data communication device for the receiving of picture and synchronous data as well as for transferring tax data exhibit, and - - in the basic equipment (1) or in the first monitor (2) a data communication device intended is, which is suitable, picture and synchronous data to the data communication device for the receiving from picture and synchronous data to send as well as tax data bi-directional transmit.

7. Presentation device according to requirement 4 and requirement 5, by it characterized that further monitors are intended, the one internal power supply device and a wireless data communication device for communication by the basic equipment (1) exhibit. —
8. Presentation device after one of the preceding requirements, thereby characterized that on the second flat screen (10) the second monitor (9) a still is producible, during on the first flat screen (4) the first monitor (2) a current screen sequence runs off.
9. Presentation device after one of the preceding requirements, thereby characterized that the monitors with the flat screens are separately controllable, in order to indicate different information.
10. Presentation device after one of the preceding requirements, thereby characterized that two operable screen cursor control devices is intended, whereby everyone produces the screen cursor control devices on each flat screen a screen cursor.
11. Presentation device after one of the requirements 1 to 8, by characterized that the flat screens are interactive screens.
12. Presentation device after one of the preceding requirements, thereby characterized that a printer in the basic equipment (1) is integrated.